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RECORDS OF MEETINGS.

One thousand and fifty-eighth Meeting.

OCTOBER 11, 1916.—STATED MEETING.

The Academy met at its House.

The PRESIDENT in the Chair.

There were fifty-two Fellows and two guests present:—

The following letters were presented by the Corresponding Secretary: from J. W. Baird, W. B. Clark, L. H. Gray, A. B. Hart, Ellsworth Huntington, C. K. Leith, F. T. Lewis, W. A. Setchell, P. G. Stiles, W. C. Sturgis, accepting Fellowship; from Thomas Hardy, accepting Foreign Honorary Membership.

The Chair announced the deaths of the following Fellows and Foreign Honorary Members: Emory McClintock, Class I., Section 1; Eugene Waldemar Hilgard, Class I., Section 3; Josiah Royce, Class III., Section 1; Elie Metchnikoff, Class II., Section 3; Sir Victor A. H. Horsley, Class II., Section 4; Sir Thomas Lauder Brunton, Class II., Section 4; Arthur Sampson Napier, Class III., Section 2.

The Corresponding Secretary announced the receipt of biographical notices of deceased Fellows, as follows:—Class I., Erasmus Darwin Leavitt, by G. R. Agassiz; Simon Newcomb, by E. W. Brown; Sir Henry Roscoe, by Ira Remsen; William Thomson, Lord Kelvin, by Elihu Thomson; Class II., Thomas Jonathan Burrill, by W. G. Farlow; George Edward Davenport, by F. S. Collins, Sir Michael Foster, by Alexander Forbes, Class III., Melville Weston Fuller, by Moorfield Storey.

On the recommendation of the Council, it was

Voted, To appropriate three hundred (\$300) dollars from the income of the General Fund for Library expenses, and two hundred (\$200) dollars for the use of the Publication Committee in printing biographical notices of deceased Members in the Proceedings.

The following communication was presented: Professor Alfred G. Mayer, "On the Races of the Pacific."

On motion of the President, the thanks of the Academy were unanimously voted to Professor Mayer for his communication.

The meeting then adjourned.

One thousand and fifty-ninth Meeting.

NOVEMBER 15, 1916.—STATED MEETING.

The Academy met at its House.

The PRESIDENT in the Chair.

There were eighty-three Fellows present:—

The Rumford Medals were presented to Dr. Charles Greeley Abbot for his researches in Solar Radiation.

Dr. Abbot addressed the Academy on "The Heat of the Sun." The communication was illustrated by lantern slides.

The following paper was presented by title: "Natural and Isogonal Families of Curves on a Surface," by Joseph Lipka. Presented by H. W. Tyler.

The meeting then adjourned.

One thousand and sixtieth Meeting.

DECEMBER 13, 1916.—STATED MEETING.

The Academy met at its House.

VICE-PRESIDENT THOMSON in the chair.

There were forty-nine Fellows present.

The following letters were presented by the Corresponding Secretary: from Wm. Trelease, president of the Illinois Academy of Science, inviting a representative of the Academy to be present at its tenth anniversary, on February 23 and 24, 1917; from the University of Illinois, an invitation to the dedication of its new Ceramic Engineering Building; from Dr. Vincent Y. Bowditch, enclosing a notice of the Academy meeting of May 25, 1825.

The following deaths were announced: Cleveland Abbe, Fellow in Class II., Section 1; Percival Lowell, Fellow in Class I., Section 1; Charles Pomeroy Parker, Fellow in Class III., Section 2;

Arthur Auwers, Foreign Honorary Member in Class I., Section 1.

The Corresponding Secretary announced the receipt by the Council of the following biographical notices of deceased Fellows: A. T. Cabot, by F. C. Shattuck, W. R. Ware, by H. L. Warren, Friedrich Kohlrausch, by A. L. Day, S. F. Emmons, by Waldemar Lindgren, L. P. di Cesnola, by Arthur Fairbanks.

On the recommendation of the Council, Professor Farlow was invited to represent the Academy at the tenth anniversary of the Illinois Academy of Science.

The presentation by Dr. B. L. Robinson, of a portrait print of the Kruell etching of Dr. Asa Gray, President of the Academy, 1863-73, was announced.

The following communications were presented:

Mr. Arthur Foote. "On the Composition of Music," with piano illustrations.

Professor Wm. M. Davis. "Sublacustrine Glacial Erosion of the Mission Range, Montana," illustrated by lantern slides.

The meeting then adjourned.

One thousand and sixty-first Meeting.

JANUARY 10, 1917.—STATED MEETING.

The Academy met at its House.

The PRESIDENT in the Chair.

There were forty-three Fellows and three guests present:

The Council reported that the Treasurer had caused the following advertisement of the Francis Amory Fund to be published, in accordance with the terms of the will, in the Boston Transcript and the Boston Daily Advertiser of December 30, 1916.

AMERICAN ACADEMY OF ARTS AND SCIENCES.

FRANCIS AMORY of Boston, who died on the tenth day of November, 1912, bequeathed to the American Academy of Arts and Sciences a sum of money for the purpose of establishing a Septennial Prize and a Gold Medal to encourage the invention and discovery of measures for the relief of maladies peculiar to the bladder and the various organs connected with it.

In default of such invention or discovery, the prize and medal may be awarded for any treatise of exceptional value upon the anatomy of these organs or upon the treatment of these diseases.

Mr. Amory directed that public notice should be given of the nature and design of the Fund, and that contributions should be expressly solicited in aid of it.

The attention of the public is therefore called to the existence of this Fund and contributions are hereby solicited.

Under the provisions of the will the Income of the Fund cannot be awarded until twenty-one years from the date of Mr. Amory's death.

HENRY H. EDES, *Treasurer*.

Boston, 10 November, 1916.

AMERICAN ACADEMY OF ARTS AND SCIENCES.

FRANCIS AMORY of Boston died on the tenth day of November, 1912. In satisfaction of the requirements of his last will and testament, duly proved and allowed as such, with certain modifications, in and by the Probate Court for the County of Suffolk in the Commonwealth of Massachusetts on the thirteenth day of March, 1914, the following detailed and itemized account of the Fund bequeathed to the American Academy of Arts and Sciences, and of the administration and application thereof during the fiscal year 1915-16, is published in two of the principal newspapers printed in Boston.

FRANCIS AMORY FUND.

Received from the Estate of Francis Amory	\$25,000.00
Less 10% as per Agreement of Compromise	2,500.00
	\$22,500.00
Interest thereon to 31 July, 1915	517.50
On Investments	567.50
	\$23,585.00
Investments made, as follows:	
\$5,000 Mortgage on improved Real Estate in Boston at 5% . .	5,000.00
5,000 Chicago Junction Railway and Union Stock Yards Company 5% bonds	4,950.00
5,000 Western Electric Company 5% bonds	5,045.00
5,000 Western Telephone and Telegraph Company 5% bonds . .	4,808.75
3,000 New York Telephone Company 4½% bonds	2,876.25
Interest in adjustment	243.80
Paid Probate Office, for attested copy of Mr. Amory's will and the Agreement of Compromise	6.25
Balance of Cash on hand, uninvested	654.95
	\$23,585.00

HENRY H. EDES, *Treasurer*.

Boston, 10 November, 1916

The following gentlemen were elected Fellows of the Academy:—

Edward Weston, of Newark, N. J., to be a Fellow in Class I., Section 2 (Physics).

James Walter Goldthwait, of Hanover, N. H., to be a Fellow in Class II., Section 1 (Geology, Mineralogy and Physics of the Globe).

Thomas Wayland Vaughan, of Washington, D. C., to be a Fellow in Class II., Section 1.

Joseph Augustine Cushman, of Sharon, to be a Fellow in Class II., Section 3 (Zoology and Physiology).

The following communications were presented:

Professor F. C. Shattuck, "On the Development of Medical Science."

Professor W. E. Story, "On Big Numbers."

The meeting then adjourned.

One thousand and sixty-second Meeting.

FEBRUARY 14, 1917.—STATED MEETING

The Academy met at its House.

The PRESIDENT in the Chair.

There were thirty-one Fellows present.

The following letters were presented by the Corresponding Secretary:—from Isaiah Bowman, T. W. Vaughan and J. A. Cushman, accepting Fellowship.

On recommendation of the Council, it was

Voted, To increase the subscription for the Union List of Periodicals from fifty (\$50) dollars to seventy-five (\$75) dollars.

The following communication was presented:

Professor W. T. Bovie, "The Effect of Rays on Protoplasm."

The meeting then adjourned.

One thousand and sixty-third Meeting.

MARCH 14, 1917.—STATED MEETING.

The Academy met at its House.

The PRESIDENT in the Chair.

There were fifty-three Fellows and eleven guests present.

The Corresponding Secretary announced the receipt of a biographical notice of Percival Lowell, by George R. Agassiz.

The Chair announced the death of Edward Dyer Peters, Fellow in Class I., Section 4.

The Chair appointed the following Councillors to act as Nominating Committee:

Desmond FitzGerald, of Class I.

John C. Warren, of Class II.

Mark A. DeW. Howe, of Class III.

On recommendation of the Council, the following appropriations were made for the ensuing year:—

From the income of the General Fund, \$5400, to be used as follows:—

for General and Meeting expenses	\$ 500.
for Library expenses	2000.
for Books, periodicals and binding	800.
for House expenses	1600.
for Treasurer's office	500.

From the income of the Publication Fund, \$3000. to be used for publication.

From the income of the Rumford Fund, \$2926.60 to be used as follows:—

for Research	\$1000.
for Books, periodicals and binding	200.
for Publication	600.
for use at the discretion of the Committee	1126.60

From the Warren Fund, \$1500. to be used at the discretion of the Committee.

The following communications were presented:—

Dr. Francis G. Benedict. "Human Energy and Food Requirements."

Dr. Arthur G. Webster. "Physics and War."

The following paper was presented by title:

"New Laboulbeniales, chiefly Dipterophilous American Species."

By Roland Thaxter.

The meeting then adjourned.

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One thousand and sixty-fourth Meeting.

APRIL 11, 1917.—STATED MEETING.

The Academy met at its House.

The PRESIDENT in the Chair.

There were twenty-six Fellows and two guests present:

The following letters were presented by the Corresponding Secretary:—from J. W. Goldthwait, accepting election to the Academy; from A. S. Hardy, declining Fellowship.

The Corresponding Secretary announced the receipt of three biographical notices: James Clarke White and Sir Thomas Lauder Brunton, by F. C. Shattuck; Cleveland Abbe, by R. DeC. Ward.

The following communication was presented:

Professor W. J. V. Osterhout, "The Relation of Life-processes to the Permeability of Protoplasm."

The meeting then adjourned.

●

One thousand and sixty-fifth Meeting.

MAY 9, 1917.—ANNUAL MEETING.

The Academy met at its House.

The PRESIDENT in the Chair.

There were thirty-four Fellows present.

The Corresponding Secretary presented a letter from J. L. Bremer, accepting Fellowship. The following biographical notices were also presented: William Watson, by C. R. Cross; D. I. Mendeléeff, by G. S. Forbes.

The following report of the Council was presented:—

Since the last report of the Council, there have been reported the deaths of seven Fellows: Emory McClintock, Eugene Waldemar Hilgard, Josiah Royce, Cleveland Abbe, Percival Lowell, Charles Pomeroy Parker, Edward Dyer Peters; and of five Foreign Honorary Members: Arthur Auwers, Elie Metchnikoff, Sir Victor A. H. Horsley, Sir Thomas Lauder Brunton, Arthur Sampson Napier.

Seventeen Fellows have been elected, of which number one has declined Fellowship, one has not yet accepted. Dr. Alexis Carrel elected in 1914, has not yet accepted.

One Foreign Honorary Member has been elected. Four previously elected, have not yet accepted.

The roll now includes 484 Fellows and 62 Foreign Honorary Members.

The annual report of the Treasurer was read, of which the following is an abstract:—

GENERAL FUND.

Receipts.

Balance, April 1, 1916	\$2,259.60	
Investments	3,520.00	
Assessments	3,290.00	
Admissions	140.00	
Sundries	152.21	\$9,361.81

Expenditures.

Expense of Library	\$2,301.44	
Expense of House	1,810.71	
Treasurer	404.29	
General Expense of Society	345.84	
Printing Biog. Notices in Proc. 51	200.00	
Interest on Bonds bought	3.78	
Income transferred to principal	265.13	\$5,331.19
Balance, April 1, 1917		4,030.62
		<u>\$9,361.81</u>

RUMFORD FUND.

Receipts.

Balance, April 1, 1916	\$3,146.56	
Investments	3,164.27	
Grant returned	100.00	6,410.83

Expenditures.

Research	\$2,519.88	
Books, periodicals and binding	72.94	
Publication	1,347.12	
Sundries	38.60	
Interest on Mortgage, bought	7.64	
Income transferred to principal	154.03	\$4,140.21
Balance, April 1, 1917		2,270.62
		<u>\$6,410.83</u>

C. M. WARREN FUND.

Receipts.

Balance, April 1, 1916	\$1,902.23	
Investments	2,000.73	3,902.96

Expenditures.

Research	\$1,277.00	
Sundries	3.00	
Interest on Mortgage, bought	.77	
Income transferred to principal	29.92	\$1,310.69

Balance April 1, 1917		\$2,592.27
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\$3,902.96

PUBLICATION FUND.

Receipts.

Balance, April 1, 1916	\$1,456.95	
Appleton Fund investments	907.26	
Centennial Fund investments	2,384.27	
Author's Reprints	179.00	
Sale of Publications	164.05	\$5,091.53

Expenditures.

Publications	\$2,995.31	
Sundries	10.00	
Interest on Mortgage, bought	4.96	
Income transferred to principal	159.43	\$3,169.70

Balance, April 1, 1917		\$1,921.83
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\$5,091.53

FRANCIS AMORY FUND.

Receipts.

Investments	\$1,178.75	\$1,178.75
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Expenditures.

Interest on Bonds and Mortgage, bought	13.26	
Sundries	38.08	
Income transferred to principal	1,127.41	\$1,178.75

The following reports were also presented:—

REPORT OF THE LIBRARY COMMITTEE.

The Librarian begs to submit the following report:—

During the year, 71 books have been borrowed from the Library by 24 persons including 16 Fellows and 2 libraries. Although no actual count has been kept, about 75 people have made use of the reading-room, consulting about 150 volumes. All books taken out have been satisfactorily accounted for.

The number of volumes on the shelves at the time of the last report was 34,681. 547 volumes have been added during the past year, making the number now on the shelves, 35,228. This includes 25 purchased from the income of the General Fund, 18 from that of the Rumford Fund, and 504 received by gift or exchange. The pamphlets added during the year number 1276.

The number of gifts of books and pamphlets was greatly augmented this year in response to the request for the publications of Fellows, sent out in November, 1916. It is hoped that still more of such publications may be received.

The expenses charged to the Library during the financial year are:—

Salaries	\$1,785.87
Binding:—	
General Fund	371.90
Rumford Fund	36.40
Purchase of periodicals and books:—	
General Fund	120.68
Rumford Fund	36.54
Miscellaneous	26.56
Total	\$2,377.95

While we have unfortunately been deprived through an illness of several months of the services of the assistant Librarian, Mrs. Holden, the Librarian takes pleasure in commending the manner in which the work has been carried on by Mrs. A. M. Smith.

A. G. WEBSTER, *Librarian.*

May 9, 1917.

REPORT OF THE RUMFORD COMMITTEE.

The Committee organized Oct. 11, 1916, choosing Messrs. Charles R. Cross, Chairman and Arthur G. Webster, Secretary.

During the present year, grants have been made in aid of research as follows:—

October 11, 1916. To Professor J. A. Parkhurst in aid of his investigations on the determination of the Photometric scale of stellar magnitude	\$300
Dec. 13, 1916. To Mr. E. T. King in aid of his researches on physical measurements of the color of pigments	25
To Professor Edward Kremers in aid of his research on the chemical action of light on organic compounds	300
Feb. 14, 1917. To Professor F. K. Richtmyer in aid of his research on the optical properties of thin films	500
To Professor Norton A. Kent in aid of his research on spectral lines. (Additional)	400
To Mr. Ancel St. John in aid of his research on the spectra of X-rays	200
May 9, 1917. To Mr. David L. Webster, for the salary of an assistant in connection with his research on the intensity of lines in X-ray spectra	100
To Professor Frederic Palmer Jr. in aid of his research on light of very short wave length. (Additional)	100
To Professor B. J. Spence in aid of his research upon a new Color Identity Pyrometer	75
To Professor B. J. Spence in aid of his research upon a new and more sensitive form of radiometer	150
To Professor R. C. Gibbs, in aid of his investigations on the absorption of organic and other solutions for ultra-violet, visible and infra-red rays	500
To Professor W. M. Baldwin in aid of his research on the character of chemical substances necessary to sensitize animal tissues to the influence of X-rays	125

Voted to refer to the Chairman the question of the award of \$150 to Mr. Preston H. Edwards in aid of his research on solar radiation in India with power to act.

Mr. Everett T. King who, as already stated, received a grant on Dec. 13, 1916, to aid in the prosecution of a research on which he was then engaged, was shortly thereafter attacked with typhoid fever

which resulted fatally. It is worthy of remark that Mr. King was the youngest person to whom a grant from the Rumford Fund has ever been made.

Reports of progress in their several researches have been received from the following persons:—

Messrs. C. G. Abbot, R. T. Birge, P. W. Bridgman, W. W. Campbell, A. L. Clark, H. Crew, F. Daniels, E. B. Frost, H. C. Hayes, H. P. Hollnagel, L. R. Ingersoll, N. A. Kent, F. E. Kester, L. V. King, C. A. Kraus, E. Kremers, G. M. Lewis (research finished), R. A. Millikan, C. L. Norton, F. Palmer, Jr., J. A. Parkhurst, H. M. Randall, T. W. Richards, F. K. Richtmyer, A. St. John, F. A. Saunders, W. O. Sawtelle, A. W. Smith, F. W. Very.

The following papers have been published with aid from the Rumford Fund in the Proceedings of the Academy, Vol. 52, since the last annual meeting.

No. 2. July 1916. The velocity of polymorphic changes between solids by P. W. Bridgman.

No. 3. July 1916. Polymorphism at high pressures, by P. W. Bridgman.

No. 9. Feb. 1917. The electrical resistance of metals under pressure by P. W. Bridgman.

No. 12. Due to appear shortly, the Joule-Thomson effect in superheated steam. I. An experimental study of heat leakage by H. M. Trueblood.

At its meeting of Feb. 14th, 1917, the Committee voted that the replica of the first Rumford Medal which, according to a previous vote, is to be presented to the Rumford Historical Society shall be of silver rather than of bronze.

It having occasionally occurred, especially in summer when the Committee is scattered, that important applications have been received for aid which could not be met in the usual manner, the Committee has endeavored to meet this exigency as indicated in the following action of Dec. 13, 1916: Voted: that in case of immediate need of an appropriation the chairman be authorized to communicate the case in writing to the members and, on receiving the written consent of a majority of the Committee, may make the appropriations thus authorized; provided that in case any member of the Committee presents serious objections and so requests the matter shall be reserved and presented to the Committee at their next regular meeting.

At the meeting of March 14, 1917, it was unanimously voted for the first time and at the meeting of April 11th, for the second time to

recommend to the Academy that the Rumford Premium be awarded to Percy W. Bridgman for his Thermodynamical Researches at extremely high Pressures.

CHARLES R. CROSS, *Chairman*.

May 9, 1917.

REPORT OF THE C. M. WARREN COMMITTEE.

The C. M. Warren Committee begs to submit the following report:

The unexpended balance of appropriations held by the Committee at the time of the last report was \$1201.50. In March, 1917, a further appropriation of \$1500 was made by the Academy.

During the past year the sum of \$30 has been expended for reprinting of certain papers by Professor Charles F. Mabery, copies of which had been exhausted.

On December 14, 1916, a grant of \$250 was made to Professor E. L. Mark to assist in carrying on an investigation of certain properties of sea water at the Bermuda Islands. This carried with it the understanding that so much of the apparatus purchased from this grant as might be of a permanent character should be considered the property of the Academy and subject to its directions at the close of the investigation.

On January 15, 1917, an additional grant of \$150 was made to Professor R. F. Brunel for the purchase of chemicals needed for the continuation of his research on the relation between the constitution of aliphatic radicals and their chemical affinities.

The amount which remains at the disposal of the Committee at the present time is \$2271.50. This sum, of course, is exceptionally large, and under ordinary conditions it would undoubtedly be wise to consider the investment of a part of this sum as an addition to the permanent fund. The Committee is of the opinion, however, that under the present conditions it is better to hold this sum in readiness for its possible use to promote researches which are necessary in connection with our national crisis.

During the past year Professor W. D. Harkins has published additional papers on Surface Energy in the March and April numbers of the *Journal of the American Chemical Society*.

Professor R. F. Brunel has also published results of research work aided by a grant from the Warren Fund on the "Reversible Replace-

ment of Alcohols in Aldehydealcoholates," which appeared in the Journal of the American Chemical Society in September, 1916.

Respectfully submitted,

H. P. TALBOT, *Chairman.*

May 9, 1917.

REPORT OF THE PUBLICATION COMMITTEE.

The Committee of Publication submits the following report for the period from April 1, 1916 to April 1, 1917.

During this period, 1070 pages of the Proceedings have been issued, namely Nos. 11-14 of Vol. 51, and Nos. 1-9, of Vol. 52.

Several of these numbers, namely 51:12, 52:2, 52:3, 52:9, and part of 51:13, were paid for out of the funds of the Rumford Committee, the total charge against the Rumford Fund being \$1324.39.

The accounts of the Committee of Publication stand as follows:

Balance on hand April 1, 1916	\$1,408.55
Appropriation for 1916-1917	3,000.00
Additional appropriation, to cover the cost of 90 pages of biographical notices	200.00
Proceeds from the sale of publications	164.05
Total available funds	4,772.60
Expenses	3,016.31
Balance on hand April 1, 1917	\$1,756.29

During the present year, authors have ordered "extra" reprints, through the Committee, to the amount of \$179.00.

Respectfully submitted,

EDWARD V. HUNTINGTON, *Chairman.*

May 9, 1917.

REPORT OF THE HOUSE COMMITTEE.

The House Committee submits the following report for the year 1916-17.

The Committee had at its disposal at the beginning of the year a

balance of \$360.33. The appropriation by the Academy for the year was \$1600, and there has been received for the use of the rooms,—from the Harvard-Technology Chemical Club \$18, from the Colonial Society \$15, from the Archaeological Society \$5, from sale of chairs \$4.25, making the total amount at the disposal of the committee \$2002.58.

The total expenditure for the year was \$1861.34, leaving at the close of the fiscal year an unexpended balance of \$141.24. The expenditures may be summarized as follows:

Janitor	\$750.00
Electricity { A. Light	64.00
{ B. Power	44.00
Gas	11.04
Water	8.00
Telephone	50.95
Coal { Furnace	409.63
{ Water Heater	45.50
Ash tickets	7.00
Care of elevator	21.46
Ice	14.40
Janitor's materials	16.72
Furnishings	228.62
Upkeep	188.02
Sundries	2.00
Total expenditure	\$1,861.34

Meetings have been held as follows:—

American Academy of Arts and Sciences	8
Harvard Biblical Club	6
Harvard-Technology Chemical Club	2
Colonial Society	4
American Antiquarian Society	1
Archaeological Institute of America	1

American Oriental Society held two all day sessions April 10 and 11, and one evening session, April 10.

Respectfully submitted,

HAMMOND V. HAYES, *Chairman.*

May 9, 1917.

On recommendation of the Rumford Committee, it was
Voted, To award Rumford Premium to Percy Williams Bridgman, of Cambridge, Mass., for his Thermodynamical Researches at Extremely High Pressures.

The annual election resulted in the choice of the following officers and committees:—

CHARLES P. BOWDITCH, *President*.
ELIHU THOMSON, *Vice-President for Class I*.
WILLIAM M. DAVIS, *Vice-President for Class II*.
GEORGE F. MOORE, *Vice-President for Class III*.
HARRY W. TYLER, *Corresponding Secretary*.
WM. STURGIS BIGELOW, *Recording Secretary*.
HENRY H. EDES, *Treasurer*.
ARTHUR G. WEBSTER, *Librarian*.

Councillors for Four Years.

HENRY LEFAVOUR, *of Class I*.
WILLIAM T. SEDGWICK, *of Class II*.
BARRETT WENDELL, *of Class III*.

Finance Committee.

HENRY P. WALCOTT, JOHN TROWBRIDGE,
GEORGE V. LEVERETT.

Rumford Committee.

CHARLES R. CROSS, ARTHUR G. WEBSTER,
EDWARD C. PICKERING, ARTHUR A. NOYES,
LOUIS BELL, ELIHU THOMSON,
THEODORE LYMAN.

C. M. Warren Committee.

HENRY P. TALBOT, CHARLES L. JACKSON,
WALTER L. JENNINGS, ARTHUR D. LITTLE,
ARTHUR A. NOYES, GREGORY P. BAXTER,
WILLIAM H. WALKER.

*Publication Committee.*EDWARD V. HUNTINGTON, *of Class I.*WALTER B. CANNON, *of Class II.*ALBERT A. HOWARD, *of Class III.**Library Committee.*HARRY M. GOODWIN, *of Class I.*THOMAS BARBOUR, *of Class II.*WILLIAM C. LANE, *of Class III.**House Committee.*

GEORGE T. AGASSIZ,

LOUIS DERR,

WM. STURGIS BIGELOW.

Committee on Meetings.

THE PRESIDENT,

WILLIAM M. DAVIS,

THE RECORDING SECRETARY,

EDWIN B. WILSON,

GEORGE F. MOORE.

Auditing Committee.

GEORGE R. AGASSIZ,

JOHN E. THAYER.

The following gentlemen were elected Fellows of the Academy:—

Raymond Clare Archibald, of Providence, to be a Fellow in Class I., Section 1.

Frank Morley, of Baltimore, to be a Fellow in Class I., Section 1.

Frederick Slocum, of Middletown, to be a Fellow in Class I., Section 1.

Gordon Ferrie Hull, of Hanover, to be a Fellow in Class I., Section 2.

John Zeleny, of New Haven, to be a Fellow in Class I., Section 2.

Bernard Arthur Behrend, of Boston, to be a Fellow in Class I., Section 4.

Charles Francis Brush, of Cleveland, to be a Fellow in Class I., Section 4.

Herbert Ernest Gregory, of New Haven, to be a Fellow in Class II., Section 1.

John Duer Irving, of New Haven, to be a Fellow in Class II., Section 1.

Frederic Brewster Loomis, of Amherst, to be a Fellow in Class II., Section 1.

Alexander George McAdie, of Readville, to be a Fellow in Class II., Section 1.

William John Miller, of Northampton, to be a Fellow in Class II., Section 1.

Louis Valentine Pirsson, of New Haven, to be a Fellow in Class II., Section 1.

Percy Edward Raymond, of Cambridge, to be a Fellow in Class II., Section 1.

William North Rice, of Middletown, to be a Fellow in Class II., Section 1.

Charles Willison Johnson, of Boston, to be a Fellow in Class II., Section 3.

Richard Swann Lull, of New Haven, to be a Fellow in Class II., Section 3.

John Broadus Watson, of Baltimore, to be a Fellow in Class II., Section 3.

Frederick John Foakes-Jackson, of New York, to be a Fellow in Class III., Section 1.

Arthur Lord, of Plymouth, to be a Fellow in Class III., Section 1.

Charles Edwards Park, of Boston, to be a Fellow in Class III., Section 1.

Edward Douglass White, of Washington, to be a Fellow in Class III., Section 1.

Eugene Watson Burlingame, of Albany, to be a Fellow in Class III., Section 2.

Joseph Clark Hoppin, of Boston, to be a Fellow in Class III., Section 2.

William Guild Howard, of Cambridge, to be a Fellow in Class III., Section 2.

Ralph Adams Cram, of Boston, to be a Fellow in Class III., Section 4.

Edward Waldo Emerson, of Concord, to be a Fellow in Class III., Section 4.

Horace Howard Furness, of Philadelphia, to be a Fellow in Class III., Section 4.

Chester Noyes Greenough, of Cambridge, to be a Fellow in Class III., Section 4.

Francis Barton Gummere, of Haverford, to be a Fellow in Class III., Section 4.

Allan Marquand, of Princeton, to be a Fellow in Class III., Section 4.

Richard Clipston Sturgis, of Boston, to be a Fellow in Class III., Section 4.

The following gentlemen were elected Foreign Honorary Members:—

Tullio Levi-Civita, of Padua, Italy, to be a Foreign Honorary Member in Class I., Section 1.

Frank Dawson Adams, of Montreal, to be a Foreign Honorary Member in Class II., Section 1.

Ramon Menendez Pidal, of Madrid, to be a Foreign Honorary Member in Class III., Section 2.

The following communication was presented:—

Professor Charles R. Lanman. "The Harvard Oriental Series; its Purpose and Set-backs and Progress."

The following papers were presented by title:

"Fraxinus in New Mexico and Arizona." By Alfred Rehder.

"The Algae of Bermuda." By Frank S. Collins and Alpheus P. Hervey.

On motion of Professor W. T. Sedgwick, it was

Voted, That the thanks of the Academy be extended to Dr. Henry Pickering Walcott on his retirement from the Presidency for his able and faithful administration of that office.

The meeting then adjourned.